RAW SEQUENCE LISTING

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Application Serial Number: _____ 10/561, 015_____

Source: _____ JFWP _____

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IFWP

RAW SEQUENCE LISTING   DATE: 12/30/2005
PATENT APPLICATION: US/10/561,015   TIME: 09:36:55

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 3 <110> APPLICANT: Felsenfeld, Dan P.
 4         Verse-Pierluissi, Maria A.
 6 <120> TITLE OF INVENTION: METHODS AND AGENTS FOR TREATING AXONAL DAMAGE, INHIBITION OF
 7         NEUROTRANSMITTER RELEASE AND PAIN TRANSMISSION, AND BLOCKING
 8         CALCIUM INFLUX IN NEURONS
10 <130> FILE REFERENCE: 02420/100M761-US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/561,015
C--> 12 <141> CURRENT FILING DATE: 2005-12-16
12 <150> PRIOR APPLICATION NUMBER: 60/480,092
13 <151> PRIOR FILING DATE: 2003-06-19
15 <150> PRIOR APPLICATION NUMBER: PCT/US04/19934
16 <151> PRIOR FILING DATE: 2004-06-21
18 <160> NUMBER OF SEQ ID NOS: 27
20 <170> SOFTWARE: PatentIn version 3.3
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23 <211> LENGTH: 12
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial sequence
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56 <223> OTHER INFORMATION: synthetic protein
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 78 ggaacagtct ccacggcgcc tggttgtctt cccaacagat gacataagcc tcaaatgtga     180
 80 agccagaggc agaccccaag tggagttccg ctggacgaaa gatggcatcc acttcaaacc     240
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158 ccaggttaag ggccacctca ggggatacaa tgtaacgtac tggtggaagg gcagtcagag    2580
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204 <211> LENGTH: 1259
205 <212> TYPE: PRT
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215             20                  25                  30
218 Glu Pro Pro Val Ile Thr Glu Gln Ser Pro Arg Arg Leu Val Val Phe
219         35                  40                  45
222 Pro Thr Asp Asp Ile Ser Leu Lys Cys Glu Ala Arg Gly Arg Pro Gln
223     50                  55                  60
226 Val Glu Phe Arg Trp Thr Lys Asp Gly Ile His Phe Lys Pro Lys Glu
227 65                  70                  75                  80
230 Glu Leu Gly Val Val Val His Glu Ala Pro Tyr Ser Gly Ser Phe Thr
231                 85                  90                  95
234 Ile Glu Gly Asn Asn Ser Phe Ala Gln Arg Phe Gln Gly Ile Tyr Arg
235             100                 105                 110
238 Cys Tyr Ala Ser Asn Asn Leu Gly Thr Ala Met Ser His Glu Ile Gln
239             115                 120                 125
242 Leu Val Ala Glu Gly Ala Pro Lys Trp Pro Lys Glu Thr Val Lys Pro
243     130                 135                 140
246 Val Glu Val Glu Glu Gly Glu Ser Val Val Leu Pro Cys Asn Pro Pro
247 145                 150                 155                 160
250 Pro Ser Ala Ala Pro Leu Arg Ile Tyr Trp Met Asn Ser Lys Ile Leu
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254 His Ile Lys Gln Asp Glu Arg Val Ser Met Gly Gln Asn Gly Asp Leu
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262 Asn Ala His Phe Pro Gly Thr Arg Thr Ile Ile Gln Lys Glu Pro Ile
263         210                 215                 220
266 Asp Leu Arg Val Lys Pro Thr Asn Ser Met Ile Asp Arg Lys Pro Arg
267 225                 230                 235                 240
270 Leu Leu Phe Pro Thr Asn Ser Ser Ser His Leu Val Ala Leu Gln Gly
271                 245                 250                 255
274 Gln Ser Leu Ile Leu Glu Cys Ile Ala Glu Gly Phe Pro Thr Pro Thr
275                 260                 265                 270
278 Ile Lys Trp Leu His Pro Ser Asp Pro Met Pro Thr Asp Arg Val Ile
279         275                 280                 285
282 Tyr Gln Asn His Asn Lys Thr Leu Gln Leu Leu Asn Val Gly Glu Glu
283         290                 295                 300
286 Asp Asp Gly Glu Tyr Thr Cys Leu Ala Glu Asn Ser Leu Gly Ser Ala
287 305                 310                 315                 320
290 Arg His Ala Tyr Tyr Val Thr Val Glu Ala Ala Pro Tyr Trp Leu Gln
291                 325                 330                 335
294 Lys Pro Gln Ser His Leu Tyr Gly Pro Gly Glu Thr Ala Arg Leu Asp
295                 340                 345                 350
298 Cys Gln Val Gln Gly Arg Pro Gln Pro Glu Val Thr Trp Arg Ile Asn
299         355                 360                 365
302 Gly Met Ser Ile Glu Lys Val Asn Lys Asp Gln Lys Tyr Arg Ile Glu
303         370                 375                 380
306 Gln Gly Ser Leu Ile Leu Ser Asn Val Gln Pro Ser Asp Thr Met Val
307 385                 390                 395                 400
310 Thr Gln Cys Glu Ala Arg Asn Gln His Gly Leu Leu Leu Ala Asn Ala
311                 405                 410                 415
314 Tyr Ile Tyr Val Val Gln Leu Pro Ala Arg Ile Leu Thr Lys Asp Asn
315                 420                 425                 430
318 Gln Thr Tyr Met Ala Val Glu Gly Ser Thr Ala Tyr Leu Leu Cys Lys
319         435                 440                 445
322 Ala Phe Gly Ala Pro Val Pro Ser Val Gln Trp Leu Asp Glu Glu Gly
323         450                 455                 460
326 Thr Thr Val Leu Gln Asp Glu Arg Phe Phe Pro Tyr Ala Asn Gly Thr
327 465                 470                 475                 480
330 Leu Gly Ile Arg Asp Leu Gln Ala Asn Asp Thr Gly Arg Tyr Phe Cys
331                 485                 490                 495
334 Gln Ala Ala Asn Asp Gln Asn Asn Val Thr Ile Leu Ala Asn Leu Gln
335                 500                 505                 510
338 Val Lys Glu Ala Thr Gln Ile Thr Gln Gly Pro Arg Ser Thr Ile Glu
339         515                 520                 525
342 Lys Lys Gly Ala Arg Val Thr Phe Thr Cys Gln Ala Ser Phe Asp Pro
343         530                 535                 540
346 Ser Leu Gln Ala Ser Ile Thr Trp Arg Gly Asp Gly Arg Asp Leu Gln
347 545                 550                 555                 560
350 Glu Arg Gly Asp Ser Asp Lys Tyr Phe Ile Glu Asp Gly Gln Leu Val
351                 565                 570                 575
354 Ile Gln Ser Leu Asp Tyr Ser Asp Gln Gly Asn Tyr Ser Cys Val Ala
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355            580                585                590
358 Ser Thr Glu Leu Asp Glu Val Glu Ser Arg Ala Gln Leu Leu Val Val
359         595                600                605
362 Gly Ser Pro Gly Pro Val Pro His Leu Glu Leu Ser Asp Arg His Leu
363     610                615                620
366 Leu Lys Gln Ser Gln Val His Leu Ser Trp Ser Pro Ala Glu Asp His
367 625                630                635                640
370 Asn Ser Pro Ile Glu Lys Tyr Asp Ile Glu Phe Glu Asp Lys Glu Met
371             645                650                655
374 Ala Pro Glu Lys Trp Phe Ser Leu Gly Lys Val Pro Gly Asn Gln Thr
375         660                665                670
378 Ser Thr Thr Leu Lys Leu Ser Pro Tyr Val His Tyr Thr Phe Arg Val
379         675                680                685
382 Thr Ala Ile Asn Lys Tyr Gly Pro Gly Glu Pro Ser Pro Val Ser Glu
383     690                695                700
386 Thr Val Val Thr Pro Glu Ala Ala Pro Glu Lys Asn Pro Val Asp Val
387 705                710                715                720
390 Arg Gly Glu Gly Asn Glu Thr Asn Asn Met Val Ile Thr Trp Lys Pro
391             725                730                735
394 Leu Arg Trp Met Asp Trp Asn Ala Pro Gln Ile Gln Tyr Arg Val Gln
395         740                745                750
398 Trp Arg Pro Leu Gly Lys Gln Glu Thr Trp Lys Glu Gln Thr Val Ser
399     755                760                765
402 Asp Pro Phe Leu Val Val Ser Asn Thr Ser Thr Phe Val Pro Tyr Glu
403     770                775                780
406 Ile Lys Val Gln Ala Val Asn Asn Gln Gly Lys Gly Pro Glu Pro Gln
407 785                790                795                800
410 Val Thr Ile Gly Tyr Ser Gly Glu Asp Tyr Pro Gln Val Ser Pro Glu
411             805                810                815
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415         820                825                830
418 Arg Pro Val Asp Leu Ala Gln Val Lys Gly His Leu Arg Gly Tyr Asn
419         835                840                845
422 Val Thr Tyr Trp Trp Lys Gly Ser Gln Arg Lys His Ser Lys Arg His
423     850                855                860
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VERIFICATION SUMMARY   DATE: 12/30/2005
PATENT APPLICATION: **US/10/561,015**   TIME: 09:36:56

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date